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# User Manual

(SU538S)



This user manual has been specially designed to guide you through the functions and features of your GPS vehicle tracker.

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# 1. Products Components and Port Definition

## 1.1 Product Introduction

Name	Assist Monitoring System Sekurt
Type	SU538S
Size	L77*W41*H27mm

Long stand by device low power consumption to 2 $\mu$ A when standby locate one times a day can lifelong for three years <over than 1200 pcs data> small and smart mainly using in financial rental and private car areas.

## 1.2 Product Configuration List

### Packing List

No	Name	quantity	Unit
1	host	1	Pc
2	User manual	1	Pc
3	Package box	1	Pc

### Optional list

No	Name	quantity	Unit	Remark
1	4PIN wire	1	pc	Used for setting parameter
2	magnet	1	pc	Either-or
3	Velcro	1	pc	

# 2. Specifications and functions

## 2.1 Specifications

No	Item	Specifications
1	Working voltage	DC 3V
2	Working current	60-80mA @3V
3	Standby current	<3.5uA
4	Size	L77mm*W41mm*H27mm
5	Location Way	GPS
6	Location Accuracy	<10 meter

7	Communication Network	GPRS GSM:800/900/1800/1900 MHz Quad-band
8	Communication way	UDP
9	Working temperature	-25°C+75°C
10	Storage temperature	-40°C+85°C
11	weight	100g
12	Battery life	3 years (CR123A)

## 2.2 Functions

Function Details	Function Illustration
Alarm Mode	Can set wake-up time 4 times each day, would wake-up automatically in the setting time and after sent the Data then go into sleeping mode
Timer Mode	Sent the data at one fixed time and sent the location data in the setting time
Week Mode	Can set a time point and one day or several days in one week to sent the data and then go into sleeping mode
LBS tracking+ GPS tracking	When GPS cannot get the signal ,the LBS tracking would start working automatically
Serial port set-up	Can set IP and port ,APN, Equipment number, correcttime, alarm mode ,timer mode, week mode
Message set-up	Can set IP and port, APN, Equipment number, alarm mode R, timer mode. W, week mode
Message inquiry	Return back to reference setting
Message to correct time	Use the mobile edit (C: TIME) send to the terminal equipment, after the terminal get the message and would apply time correct to platform automatically.
Tamper alarm	When the equipment detected the light turn to bright, the equipment will send an alarm message to the platform.
Anti-fake-LBS location	Then device will refuse to connect to the fake-LBS locate when detected

### Data send explanation

1. After battery finish installation.GPS Mode start searching the signal, Within 4 minutes, the GPS module will be turned off immediately and start dialing. GPS mode will go into sleeping mode after 8s once sending the last data. If GPS mode has not been positioned, it will start dialing after 4 minutes.

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2. For RTC awoken or Sensor awoken, GPS mode will wait for location no more than 150 seconds, otherwise it will start to send data by dialing immediately, if GPS mode can't locate within 150s. Time mode which is set 7 to 30 minutes will quick located within 90s.

3. Time mode which is set 7 to 30 minutes will go into sleeping mode within 3 minutes. The device won't go into sleeping mode if it is set for 1~6 minutes. Other modes need 6 minutes for going into sleeping mode.

## 2.3 Setting and installation

### 2.3.1 Installation

Open the device and put on SIM card, then put the magnet on the bottom of the device. Find a place with metal material in the vehicle, put the device with magnet on it, it is a very easy installation.

### 2.3.2 Com Port Setup

Com Port No.	Choose right com port and open it
Communication IP	Set the needed IP and Port
APN	Set the needed APN
Equipment No.	Setting the equipment NO.
Time correct	Can correct time (Remark: after equipment power off ,the time would not be kept)
Alarm mode	Can set up alarm and to send back the data, can set 4 times at most
Timer mode	Choose close then adopt alarm mode ,choose open ,then the date send back according to the setting-up time
Week mode	Choose close then adopt alarm mode ,choose open ,then the date send back according to the setting-up week time
Alarm switch	Choose tamper alarm switch open or close
Setting	After setting the parameter, then click setting, after setting succeed ,then remind you setting succeed ,otherwise remind you setting failure
Read	Click read and confirm if the parameter you read is same as your setting-up

**Set by Computer (use USB line make the device connect with computer)**

### 3. FAQ and after-sales services

#### 3.1 FAQ analysis

SMS format:

<SPSEK\*P:SEKGPS\*U:219.133.034.198,6688\*A:CMNET\*N:13600001111\*R:0010,0020,1736,1745\*D:040\*W:1,12,1200>

**SPBSJ:** fixed format

**U:** UDP IP and port, the format as the TCP format

**A:** stands for APN parameter

**P:** password

**R:** Real-Time Clock mode,

◆R:0010,0020,1736,1745, means 0:10,0:20,17:36,17:45 will wake up and send the location data

**N:** stands for the terminal number

**D:** timing mode

◆“040” means: Upload location information every 40 minutes if the timing mode is setting between 1-6 the device will not go into dormant mode but keep timing mode.

**W:** Week Mode

◆1.12.1200 open up the week mode, on Monday and Tuesday, 12:00 would wake up.

**Pls note:** setting R, D and W mode at the same time is available, device will give priority to the implementation of D mode. When D set as 000 the terminal performs the W mode. When close the W mode, and then perform the R mode.

#### 3.2 Indicator Light State

GSM Indicator light (Red)	
Light-off long	GSM abnormal or the light broken
Light quickly	GPRS no signal or cannot register the net

Flash slowly (lighter after 2 seconds and dark after two seconds)	GPRS have signal, but not on-line
Flash fast (2 times/second)	terminal equipment get online normally

<b>GPS Indicator light (Yellow)</b>	
Light-off long	GSM mode broken or go into sleeping state
Light long	terminal equipment work abnormal
Flash slowly (1 time/second)	have signal but location failure
Flash slowly (3 times/0.2 second)	terminal equipment get into sleeping mode
Flash quickly (2 times/second)	terminal equipment location succeed

### 3.3 Attention

1. Stay away from water
2. Working temperature is -20 to 70 centigrade, please cut off power if the temperature is over this range.
3. When vehicle is in underground parks, tunnels or garage, maybe GPS signal will not very good. Communication network blind area will be caused and cannot monitor vehicle. When the car is out of that area, it will working good automatically.
4. Please not repair by yourself when the device not working properly.

### 3.4 After-sale service

1. During the one-year warranty, please feel free to contact us if there is any problem or damage not caused by human factors.
2. Not maintenance:
  - (1) Client dismantled privately
  - (2) Force majeure (floods, accidents, etc.)
3. More than one year damage or faulty maintenance will need to pay for raw material.
4. Free to provide customers with the purchase, use, installation and other consultation and technical services.

**FCC Warning:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.